



Power Systems

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Service Letter

Letter No. 035

Issue Date: Aug. 25, 2009

SUPERSEDED SERVICE BULLETIN MSA-13

INTRODUCTION:

Volare' Carburetors, LLC (formerly Precision Airmotive/ Facet/ Marvel Schebler/ Borg Warner) issued Service Bulletin SB-5 Rev. A on June 1, 2009, the subject, "Superceded Service Bulletin MSA-13" regarding the replacement previous float assemblies. Precision Airmotive issued Service Bulletin MSA-1 on 10/15/90 (revised 11/11/91) to mandate the removal of metal floats from float style carburetors and replace them with newly developed advanced polymer (Delrin plastic) floats. This service bulletin did not address the use of existing FAA/PMA approved floats which remained in service. On January 30, 2008, Precision Airmotive issued Mandatory Service Bulletin MSA-13 which superseded MSA-1. This bulletin once again mandated the replacement of Precision metal floats and also mandated the replacement of the Precision advanced polymer floats, requiring that a new improved Precision foam float be installed. Again, in Feb. of 2009, Volare' Carburetors, LLC issued Flight Safety Service Bulletins SB-2 and SB-3, replacing all style floats with solid blue epoxy floats.

Mandatory Service Bulletin MSA-13 addressed the FAA/PMA approved floats by stating "This bulletin does not apply to carburetors containing floats manufactured by other FAA-PMA approved sources. Continued airworthiness instructions for those non Precision Airmotive/Facet floats should be obtained from the manufacturer". Kelly Aerospace Power Systems (KAPS) has produced a metal float (brass) since 1989 and has installed them routinely in all our overhauled units. In addition, our metal float has been supplied to the field as individual replacement parts or included in repair kits. ***KAPS position regarding mandatory service bulletin MSA-13 KAPS was addressed in KAPS Service Letter 029.*** It is obvious that Volare' issued SB-5 to rectify the conflict between Precision MSA-13 and Volare' SB-2 or SB-3.

It must be noted that Volare's predecessor, Precision Airmotive, issued Mandatory Service Bulletin MSA-13 which ***correctly addresses*** FAA/PMA approved floats by stating "This bulletin does not apply to carburetors containing floats manufactured by other FAA-PMA approved sources. Continued airworthiness instructions for those non Precision Airmotive/Facet floats should be obtained from the manufacturer". From the time of MSA-13 issuance and the purchase of Precision Airmotive's carburetor line, no additional airworthiness issues or conditions either by the FAA or by Volare' have been identified to alter the statements contained in MSA-13 or to supercede it by Volare SB-5. ***Therefore, the current Volare' Carburetors, LLC Service Bulletin SB-5 does not apply to KAPS overhauled/repared carburetors using KAPS metal floats.***

This service letter is intended to clarify the confusion pertaining to the use of ***FAA/PMA approved*** KAPS metal floats in Precision Airmotive/ Facet/ Marvel Schebler/ Borg Warner float style carburetors.

COMPLIANCE:

To coincide with any action taken on Volare' Carburetors, LLC Flight Safety Service Bulletin SB-2 or SB-3.

EFFECTIVITY:

All MA-3, MA-3AA, MA-3SPA, MA-4, MA-4-5, MA-4-5AA, MA-5, MA-5AA, MA-6, MA-6AA, and HA-6 carburetors overhauled/repared at any time by Kelly Aerospace Power Systems.

PROCEDURE:

WARNING:

The instruction section of Volare' Carburetors, LLC Service Bulletin SB-5 indicate that the purpose and therefore the bulletin cannot be accomplished if any "Unauthorized" parts are installed in the carburetor. If you cannot determine if KAPS or other FAA/PMA approved parts were used in the carburetor, all parts must be replaced with new Volare" parts to achieve compliance. Alternatively, **all Kelly Aerospace Power Systems FAA/PMA approved parts are interchangeable with Precision Airmotive/ Facet/ Marvel Schebler/ Borg Warner original parts.**

CAUTION:

The removal of airworthy parts from complete installations without symptom or cause may present a hazard to owners, operators, and property. Beyond normal maintenance, NEVER open or disturb the carburetor without documented cause.

As in Precision Airmotive's Mandatory Service Bulletin MSA-13, to comply with Volare' Carburetors, LLC Bulletin SB-5 will require that you comply with Volare' SB-2 or SB-3. This requires a determination be made whether a KAPS metal float has been used. To properly comply with this Service Letter, you must refer to KAPS Service Letters 027A and 029. Please take note that use of FAA/PMA approved metal floats manufactured by KAPS continues to be an acceptable method of repair, maintenance or overhaul. *For easy reference, please see Volare' Carburetors, LLC Flight Safety Service Bulletin SB-5 included as "Attachment A" to this service letter.*

WARRANTY STATEMENT:

No warranty or other participation is applicable to this service publication. Acknowledgment and understanding of this service letter is fully the responsibility of the service facility and/or the owner of the affected product. Issuance of this service letter in no way constitutes an implied or expressed warranty of any kind.

This publication does not imply or state any responsibility for the workmanship of any person or entity performing work or maintenance on any model carburetor, fuel system, engine, or aircraft. ***The proper use of FAA/PMA approved airworthy parts in no way constitutes a total waiver of liability for any party.*** All parties retain liability, including product liability to the extent of their responsibilities under applicable law.

CONTACT INFORMATION:

If you have any questions concerning this service information letter, please contact Kelly Aerospace Power Systems Technical Support at 888-461-6077. Or write:

**Kelly Aerospace Product Support
1404 East South Blvd.
Montgomery, AL 36116, USA**

All questions, information, or requests pertaining to flight safety service bulletin SB-5 must be forwarded to Volare' Carburetors, LLC, Product Support Dept. (336) 449-5054.

ATTACHMENT A (SL 035)



Volare' Carburetors, LLC

125 Piedmont Avenue
Gibsonville, N.C. 27249, USA

Service Bulletin: SB-5

Revision: A
Date: June 1st, 2009

Subject – SUPERSEDED SERVICE BULLETIN MSA-13

1. **Applicability:** MA-2, MA-3, MA-4, MA-4-5, MA-4-5AA, MA-5, MA-5AA, MA-6, MA-6AA, and HA-6 model float carburetors manufactured by Volare Carburetors LLC (“Volare”), and its predecessors Precision Airmotive Corporation, Facet Aerospace Products Company, and Marvel-Schebler (Borg Warner) (hereinafter “Volare”) that are not equipped with a solid, blue epoxy float. Note: Volare (and Precision) floats, part numbers 30-860, 30-862 and 30-864, are NOT FOAM floats. Volare (and Precision) floats are solid, blue epoxy floats.
2. **Reason:** ***WARNING: Failure to follow this advice may result in engine malfunction, damage, injury or death.*** Precision Service Bulletin MSA-13 is superseded and replaced by Volare Service Bulletin SB-2.
3. **Compliance:** Comply with Volare Service Bulletins Nos. SB-2 & SB-4. Precision Service Bulletin MSA-13 should be marked “No Longer Active – Replaced by Volare Service Bulletin No. SB-2.”
4. **Voiding of Warranty and Waiver of Liability:** An owner’s failure to inspect and, where necessary, replace float in accordance with Service Bulletins Nos. SB-2 & SB-4, or operation of a carburetor containing a float that does not conform to the requirements of Service Bulletins Nos. SB-2 & SB-4, voids any otherwise applicable warranty and constitutes a complete and total waiver to the extent permitted by law of any and all rights the owner, operator and/or service facility or repairer may have had to hold Volare responsible or liable for the malfunction or failure of such an aviation carburetor. The owner, operator and/or service facility or repairer responsible for installation of UNAUTHORIZED parts in Volare’s aviation carburetors shall bear the sole responsibility and full liability for any damages of whatever nature, injury, or death arising from any malfunction or failure of such a modified and/or altered aviation carburetor. An owner’s purchase of a solid, blue epoxy float constitutes an agreement to not install that float in any carburetor containing UNAUTHORIZED parts (as set forth in Volare SB-1). Owners of carburetors containing UNAUTHORIZED parts assume all responsibility for the operation of such carburetors recognizing that such operation may result in engine malfunction, damage, injury or death.

Distributed by



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As Volare stated in SB-1:

- a. Volare **expressly disclaims any and all responsibility and liability** for any aviation carburetor containing UNAUTHORIZED parts to the extent permitted by law.
 - b. The installation of UNAUTHORIZED parts in Volare Float Carburetors constitutes a **complete and total waiver** to the extent permitted by law of any and all rights the operator may have had to hold Volare responsible or liable for the malfunction or failure of such a modified and/or altered aviation carburetor.
 - c. To the extent permitted by law, the owner, operator and/or overhaul facility or repairer responsible for installation of UNAUTHORIZED parts in Volare Float Carburetors shall bear the sole responsibility and full liability for any damages of whatever nature, injury, or death arising from any malfunction or failure of such a modified and/or altered aviation carburetor.
5. **Safety First:** Volare is a customer-service oriented company committed to technical innovation in pursuit of aviation safety. While Volare has no authority to compel owners to act responsibly and take prudent action to insure their own safety and the safety of others, Volare believes compliance with this Service Bulletin is essential to protect against failures with unacceptable consequences. Volare strongly warns owners of the inherent risks involved in operating an airplane with a hollow brass or plastic float or with a foam float, regardless of the manufacturer of such floats, and strongly encourages owners to comply with this Service Bulletin.